Contents Vol. 51, 1994

No. 1

Editorial 1

Original Papers

Characterization of Vincristine-Resistant HOB1 Lymphoma Cell Line Showing the Classical MDR Phenotype and Altered Expression of Membrane Glycoproteins 2
Lee, W.-P.; Lee, C.-L.

Correlation of (S+G2)-Phase Fractions Determined by Flow Cytometry and Ki-67 Labelling Indices in Colorectal Carcinomas 9
Zölzer, F.; Gilbertz, K.; Streffer, C.

Amplification of the c-*myc* Proto-Oncogene in Soft Tissue Sarcomas 13
Barrios, C.; Castresana, J.S.; Ruiz, J.; Kreicbergs, A.

Circulating CA 549 and Other Associated Antigens in Breast Cancer Patients 18
Pavesi, F.; Lotzniker, M.; Scarabelli, M.; Mauro, E.; Visconti, G.; Nicolato, E.; Moratti, R.

Prognostic Factors in Anal Carcinoma 22
Tanum, G.; Hannisdal, E.; Stenwig, B.

Changes in Tissue Levels of Glutathione, Extent of Lipid Peroxidation, and Activity of Glutathione Peroxidase in Transplantable Murine Lymphoma 25
Pada Rana, M.; Ghosh, R.; Chatterjee, M.

Primary Mucinous Adenocarcinomas and Signet-Ring Cell Carcinomas of Colon and Rectum 30
Secco, G.B.; Fardelli, R.; Campora, E.; Lapertosa, G.; Gentile, R.; Zoli, S.; Prior, C.

Growth Characteristics of Nonmalignant Cells in the ATP Cell Viability Assay 35
Koechli, O.R.; Sevin, B.-U.; Perras, J.P.; Angioli, R.; Steren, A.; Rodriguez, M.; Ganjei, P.; Averette, H.E.

Evaluation of Skull Base Erosion in Nasopharyngeal Carcinoma: Comparison of Plain Radiography and Computed Tomography 42
Cheung, Y.K.; Sham, J.; Cheung, Y.L.; Chan, F.L.

Immunohistochemical Study on the Expression of c-erbB-2 Oncoprotein in Breast Cancer 47
Horiguchi, J.; Iino, Y.; Takei, H.; Yokoe, T.; Ishida, T.; Morishita, Y.

Positive Correlation between Cytochrome P450 2E1 mRNA Level and Serum Estradiol Level in Human Uterine Endometrium 52
Kikkawa, F.; Nawa, A.; Oguchi, H.; Kawai, M.; Maeda, O.; Suganuma, N.; Aoyama, T.; Tomoda, Y.

Prognostic Factors of the Clinical Response to Subcutaneous Immunotherapy with Interleukin-2 Alone in Patients with Metastatic Renal Cell Carcinoma 59
Lissoni, P.; Barni, S.; Ardizzoia, A.; Crispino, S.; Paolorossi, F.; Andres, M.; Scardino, E.; Tancini, G.

Endemic African Kaposi's Sarcoma: Clinical and Therapeutic Implications. 10-Year Experience in the Johannesburg Hospital (1980–1990) 63
Stein, M.E.; Spencer, D.; Ruff, P.; Lakier, R.;MacPhail, P.; Bezwoda, W.R.

Control of Chemotherapy-Induced Diarrhea with Octreotide. A Randomized Trial with Placebo in Patients Receiving Cisplatin 70
Cascinu, S.; Fedeli, A.; Fedeli, S.L.; Catalano, G.

Comparison of Current Alkylating Agents with a Homo-aza-Steroidal Ester for Antineoplastic Activity 74
Catsoulacos, P.; Papageorgiou, A.; Margariti, E.; Mourelatos, D.; Mioglou, E.

High-Dose (480 mg/day) Tamoxifen with Etoposide: A Study of a Potential Multi-Drug Resistance Modulator 79
Millward, M.J.; Lien, E.A.; Robinson, A.; Cantwell, B.M.J.

13-*cis*-Retinoic Acid Plus Interferon-α: A Phase II Clinical Study in Squamous Cell Carcinoma of the Lung and the Head and Neck 84
Roth, A.D.; Abele, R.; Alberto, P.

Treatment of Advanced Primary Lung Cancer Associated with Malignant Pleural Effusion by the Combination of Immunotherapy and Chemotherapy 87
Miyao, H.; Chou, T.; Ito, K.; Moriyama, H.; Mitsuma, S.; Wakabayashi, M.; Yoshizawa, H.; Arakawa, M.

Therapeutic and Endocrine Effects of Decapeptyl®, Synthetic LH-RH Agonistic Analogue in Premenopausal Women with Metastatic Breast Cancer. A Pilot Phase II Study 95
Nešković-Konstantinović, Z.B.; Vuletić, L.B.; Nikolić-Stanojević, L.I.; Šušnjar, S.V.; Jelić, S.B.; Branković-Magić, M.V.; Radulović, S.S.

Treatment of Gastric Adenocarcinoma with the Combination of Etoposide, Adriamycin and Cisplatin (EAP): Comparison between Two Schedules 102
Haim, N.; Tsalik, M.; Robinson, E.

Azaphilones Inhibit Tumor Promotion by 12-O-Tetradecanoylphorbol-13-Acetate in Two-Stage Carcinogenesis in Mice 108
Yasukawa, K.; Takahashi, M.; Natori, S.; Kawai, K.-I.; Yamazaki, M.; Takeuchi, M.; Takido, M.

Ondansetron Compared with Granisetron in the Prophylaxis of Cisplatin-Induced Acute Emesis: A Multicenter Double-Blind, Randomized, Parallel-Group Study 113
Ruff, P.; Paska, W.; Goedhals, L.; Pouillart, P.; Rivière, A.; Vorobiof, D.; Bloch, B.; Jones, A.; Martin, C.; Brunet, R.; Butcher, M.; Forster, J.; McQuade, B.

No. 2

Role of Cytokines in Cancer Treatment

Introduction 122

Clinical Application of Cytokines for Cancer Treatment 123
Takaku, F.

Interferons in the Therapy of Solid Tumors 129
Agarwala, S.S.; Kirkwood, J.M.

Interferons for the Treatment of Hematological Malignancies 137
Urabe, A.

Tumor Necrosis Factor for the Treatment of Malignancies 142
Hieber, U.; Heim, M.E.

Interleukin-2: Solid-Tumor Therapy 154
Oppenheim, M.H.; Lotze, M.T.

Local Interleukin-2 Therapy for Cancer, and Its Effector Induction Mechanisms 170
Sone, S.; Ogura, T.

Granulocyte-Macrophage Colony-Stimulating Factor for Cancer Treatment 177
Cebon, J.S.; Lieschke, G.J.

Recombinant Human Granulocyte Colony-Stimulating Factor in the Management of Cancer Patients: Five Years On 189
Bronchud, M.H.

Macrophage Colony-Stimulating Factor for Cancer Therapy 198
Motoyoshi, K.

Stem Cell Factor Is a Potent Synergistic Factor in Hematopoiesis 205
Morstyn, G.; Brown, S.; Gordon, M.; Crawford, J.; Demetri, G.; Rich, W.; McGuire, B.; Foote, M.A.; McNiece, I.

No. 3

Original Papers

Antitumor-Promoting Activity of Mallotojaponin, a Major Constituent of Pericarps of *Mallotus japonicus* 215
Satomi, Y.; Arisawa, M.; Nishino, H.; Iwashima, A.

Genotypic, Phenotypic and Biological Characterization of a Novel Human Lung Adenocarcinoma Cell Line (LC 89) 220
Paganuzzi, M.; Marroni, P.; Pezzolo, A.; Gimelli, G.; Cavallo, F.; Di Pierro, F.; De Angelis, P.; Forni, G.; Grossi, C.E.

Overexpression of p53 Protein and Proliferative Activity in Colorectal Adenoma 224
Yamaguchi, A.; Makimoto, K.; Goi, T.; Takeuchi, K.; Maehara, M.; Isobe, Y.; Nakagawara, G.

Carcinoembryonic Antigen Staining Patterns at the Invasive Tumor Margin Predict the Malignant Potential of Colorectal Carcinoma 228
Teixeira, C.R.; Tanaka, S.; Haruma, K.; Yoshihara, M.; Sumii, K.; Kajiyama, G.; Shimamoto, F.

Predictive Value of Preoperative Carcinoembryonic Antigen Levels for the Prognosis of Patients with Well-Differentiated Gastric Cancer. A Multivariate Analysis 234
Maehara, Y.; Kusumoto, T.; Takahashi, I.; Kakeji, Y.; Baba, H.; Akazawa, K.; Sugimachi, K.

Stromal Distribution of CA 19-9 as a Predictor of Lymph Node Metastases in Gallbladder Cancer without Serosal Invasion 238
Ohta, T.; Nagakawa, T.; Fonseca, L.; Yoshimitsu, Y.; Miyazaki, I.; Terada, T.

Usefulness of Argyrophilic Nucleolar Organizer Staining for Predicting Prognosis of Patients with Recurrent Soft Tissue Sarcoma 244
Kuratsu, S.; Ohsawa, M.; Naka, N.; Myoui, A.; Tomita, Y.; Uchida, A.; Ono, K.; Aozasa, K.

Prediction of Lymph Node Metastasis and Prognosis from the Assay of the Expression of Proliferating Cell Nuclear Antigen and DNA Ploidy in Gastric Cancer 251
Yonemura, Y.; Fonseca, L.; Tsugawa, K.; Ninomiya, I.; Matsumoto, H.; Sugiyama, K.; Ohoyama, S.; Fushida, S.; Kimura, H.; Miyazaki, I.

Megestrol Acetate in Advanced Breast Carcinoma after Failure to Tamoxifen and/or Aminoglutethimide 258
Brufman, G.; Isacson, R.; Haim, N.; Gez, E.; Sulkes, A.

Goserelin in Premenopausal Advanced Breast Cancer: Clinical and Endocrine Evaluation of Responsive Patients 262
Bajetta, E.; Zilembo, N.; Buzzoni, R.; Celio, L.; Zampino, M.G.; Colleoni, M.; Oriana, S.; Attili, A.; Sacchini, V.; Martinetti, A.

Primary Gastric Non-Hodgkin's Lymphoma Localized to the Gastric Wall: No Adjuvant Treatment following Radical Surgery 270
Jelić, S.; Kovčin, V.; Jovanović, V.; Oprić, M.; Milanović, N.

Treatment of Metastatic Colorectal Cancer Patients with 5-Fluorouracil in Combination with Recombinant Subcutaneous Human Interleukin-2 and Alpha-Interferon 273
Atzpodien, J.; Kirchner, H.; Hänninen, E.L.; Menzel, T.; Deckert, M.; Franzke, A.; Schomburg, A.; Poliwoda, H.

A Comparative Study on Effects of Doxorubicin Alone or Mixed with Lipiodol Given through the Hepatic Artery or Portal Vein for Liver Tumors in Rats 276
Utsunomiya, T.; Kanematsu, T.; Matsumata, T.; Shirabe, K.; Yamagata, M.; Sugimachi, K.

The Mechanism of Recurrence of Mouse Myeloid Leukaemia after Total Body Irradiation and Bone Marrow Transplantation 282
Poljak-Blaži, M.; Popović, M.; Majić, T.

Effects of Weak Alternating Magnetic Fields on Nocturnal Melatonin Production and Mammary Carcinogenesis in Rats 288
Löscher, W.; Wahnschaffe, U.; Mevissen, M.; Lerchl, A.; Stamm, A.

Immunochemotherapy in B-16-Melanoma-Cell-Transplanted Mice with Combinations of Interleukin-2, Cyclophosphamide, and PSK 296
Ueno, Y.; Kohgo, Y.; Sakamaki, S.; Itoh, Y.; Takahashi, M.; Hirayama, Y.; Niitsu, Y.

Erratum 243
Announcement 287

No. 4

Original Papers

Antitumor Effect of a Biological Response Modifier, PSK, on C57BL/6 Mice with Syngeneic Melanoma B16 and Its Mode of Action 303
Matsunaga, K.; Aota, M.; Nyunoya, Y.; Hakozaki, M.; Ishikawa, Y.; Ohhara, M.; Sugita, N.; Endo, H.

Immunocytochemical Detection of P-Glycoprotein: Initial Expression Correlates with Survival in Renal Cell Carcinoma Patients 309
Duensing, S.; Dallmann, I.; Grosse, J.; Buer, J.; Lopez Hänninen, E.; Deckert, M.; Störkel, S.; Kirchner, H.; Poliwoda, H.; Atzpodien, J.

Immunohistochemical Detection of the c-*myc* Oncogene Product in Normal, Hyperplastic and Carcinomatous Endometrium 314
Bai, M.K.; Costopoulos, J.S.; Christoforidou, B.P.; Papadimitriou, C.S.

Inhibition of the Membrane Localization of p21 *ras* Proteins by Lovastatin in Tumor Cells Possessing a Mutated N-*ras* Gene 320
Girgert, R.; Marini, P.; Janessa, A.; Bruchelt, G.; Treuner, J.; Schweizer, P.

Lymph Node-Negative Breast Cancer: The Prognostic Role and Time Dependency of Age, Tumor Diameter and Mean Nuclear Area 323
Collett, K.; Mæhle, B.O.; Skjærven, R.; Hartveit, F.

Evaluation of Cathepsin D as Prognostic Predictor in Breast Cancer 329
Barbi, G.-P.; Margallo, E.; Margiocco, M.; Paganuzzi, M.; Marroni, P.; Costanzi, B.; Gatteschi, B.; Tanara, G.; Spina, B.; Niccolò, G.

Thymidylate Synthase Activity as a Prognostic Factor in Ovarian Cancer 334
Suzuki, M.; Ohwada, M.; Tamada, T.; Tsuru, S.

Hydralazine Combined with Hyperthermia Enhances the Effects of Carboquone 339
Emi, Y.; Maehara, Y.; Kusumoto, T.; Baba, H.; Takahashi, I.; Yoshida, M.; Sugimachi, K.

Efficacy of the Concomitant Administration of the Pineal Hormone Melatonin in Cancer Immunotherapy with Low-Dose IL-2 in Patients with Advanced Solid Tumors Who Had Progressed on IL-2 Alone 344
Lissoni, P.; Barni, S.; Cazzaniga, M.; Ardizzoia, A.; Rovelli, F.; Brivio, F.; Tancini, G.

Treatment of Malignant Pleural Mesothelioma with Cisplatin, Mitomycin C and Alpha Interferon 348
Tansan, S.; Emri, S.; Selçuk, T.; Koç, Y.; Hesketh, P.; Heeren, T.; McCaffrey, R.P.; Barış, Y.İ.

Phase II Trial of Cisplatin and Etoposide as First-Line Therapy in Metastatic Breast Carcinoma 352
Lluch, A.; Azagra, P.; Cervantes, A.; Muñoz, M.; Alberola, V.; Santabarbara, P.; García-Conde, J.

Failure of Gonadotropin Releasing Hormone Therapy in Patients with Metastatic Ovarian Sex Cord Stromal Tumors 356
Maxwell, G.L.; Soisson, A.P.; Miles, P.

Recombinant Human Tumor Necrosis Factor Causes Regression in Patients with Advanced Malignancies 360
Watanabe, N.; Yamauchi, N.; Maeda, M.; Neda, H.; Tsuji, Y.; Okamoto, T.; Tsuji, N.; Akiyama, S.; Sasaki, H.; Niitsu, Y.

Analysis of 390 Patients Surviving 10 Years or Longer after Curative Resection for Gastric Cancer 366
Maehara, Y.; Okuyama, T.; Oshiro, T.; Baba, H.; Adachi, Y.; Sugimachi, K.

Prophylactic External Irradiation in Differentiated Thyroid Cancer: A Retrospective Study over a 30-Year Observation Period 372
Ésik, O.; Németh, G.; Eller, J.

European Society of Mastology

Consensus Conference on Breast Cancer Screening Paris, February 4–5, 1993 – Report of the Evaluation Committee 380
Wald, N.; Chamberlain, J.; Hackshaw, A., on Behalf of the Evaluation Committee

Book Reviews 390
Erratum 379

No. 5

Original Papers

Survival from Childhood Leukemia Depending on Socioeconomic Status in Athens 391
Petridou, E.; Kosmidis, H.; Haidas, S.; Tong, D.; Revinthi, K.; Flytzani, V.; Papaioannou, D.; Trichopoulos, D.

Comparison of 5-Fluorouracil, Doxorubicin and Mitomycin C with 5-Fluorouracil Alone in the Treatment of Pancreatic-Biliary Carcinomas 396
Takada, T.; Kato, H.; Matsushiro, T.; Nimura, Y.; Nagakawa, T.; Nakayama, T.

Comparative Effects of Piroxicam and Esculetin on Incidence, Proliferation, and Cell Kinetics of Mammary Carcinomas Induced by 7,12-Dimethylbenz[a]anthracene in Rats on High- and Low-Fat Diets 401
Kitagawa, H.; Noguchi, M.

Prospective Randomized Study of Aminoglutethimide (AG) versus Medroxyprogesterone Acetate (MPA) versus AG+MPA in Generalized Breast Cancer 411
Samonis, G.; Margioris, A.N.; Bafaloukos, D.; Razis, D.V.

Evaluation of MTT Assay in Agarose for Chemosensitivity Testing of Human Cancers: Comparison with MTT Assay 416
Abe, R.; Ueo, H.; Akiyoshi, T.

Measurement Characteristics of Stereological and Histochemical Methods in the Diagnosis of Thyroid Tumours 426
Cör, A.; Pajer, Z.

Serum Levels of Squamous Cell Carcinoma Antigen and Ovarian Carcinoma Antigen (CA 125) in Patients with Benign and Malignant Diseases of the Uterine Cervix 430
Gocze, P.M.; Vahrson, H.W.; Freeman, D.A.

Quantitative Monoclonal Antibody Determination of Estrogen and Progesterone Receptors in Human Breast Cancer: Correlation with the Radioligand Method 435
Jarque, F.; Lluch, A.; Vizcarra, E.; Muñoz, M.; Alberola, V.; Garciá-Conde, J.

Enhanced Expression of the Multidrug Resistance Gene in Vindesine-Resistant Human Esophageal Cancer Cells 440
Saito, T.; Hikita, M.; Kohno, K.; Tanimura, H.; Miyahara, M.; Kobayashi, M.

Cystein Peptidase Inhibitors and Activator(s) in Urine of Patients with Colorectal Cancer 446
Siewiński, M.; Gutowicz, J.; Kielan, W.; Bolanowski, M.

Multiple Primary Neoplasms in Patients with Testicular Germ Cell Tumor 450
Dieckmann, K.-P.; Wegner, H.E.H.; Krain, J.

Extrahepatic Primary Malignant Neoplasms Associated with Hepatocellular Carcinoma: High Occurrence of B Cell Tumors 459
Di Stasi, M.; Sbolli, G.; Fornari, F.; Cavanna, L.; Rossi, S.; Buscarini, E.; Civardi, G.; Vallisa, D.; Berté, R.; Buscarini, L.

Malignant Fibrous Histiocytoma of the Spleen and Chronic Myelogenous Leukemia. A Case Report 465
Bonilla, F.; Provencio, M.; Fernandez, E.; España, P.

Spontaneous Production of Interleukin-8 by Human Lung Cancer Cells and Its Augmentation by Tumor Necrosis Factor Alpha and Interleukin-1 at Protein and mRNA Levels 467
Mizuno, K.; Sone, S.; Orino, E.; Mukaida, N.; Matsushima, K.; Ogura, T.

Home Treatment with Interleukin 2 and β-Interferon in Patients with Colorectal Cancer and Hepatocellular Carcinoma 472
de Braud, F.; Colleoni, M.; Noli, F.; Bajetta, E.

Book Reviews 277

No. 6

Original Papers

Implications of Flow Cytometry in Preoperative Detection of Biologic Variables of Gastric Cancer and Malignant Condition of Gastric Remnant Cells Obtained by Endoscopic Biopsy 479
Kimura, H.; Kanno, M.; Takamura, H.; Arakawa, H.; Maeda, K.; Uogishi, M.; Sodani, H.; Kawashima, T.

p53 Detection as a Prognostic Factor in Early Gastric Cancer 485
Fonseca, L.; Yonemura, Y.; De Aretxabala, X.; Yamaguchi, A.; Miwa, K.; Miyazaki, I.

CA 15.3, CEA and TPA Tumor Markers in the Early Diagnosis of Breast Cancer Relapse 491
Vizcarra, E.; Lluch, A.; Cibrián, R.; Jarque, F.; García-Conde, J.

Recombinant Human Erythropoietin in the Treatment of Cancer-Related Anaemia 497
Falkson, C.I.; Keren-Rosenberg, S.; Uys, A.; Falkson, G.; Stevens, K.; Vermaak, W.J.H.

Continuous 5-Fluorouracil and Leucovorin as a Second-Line Therapy for Advanced Gastric Carcinoma 502
Schmitz, S.H.; Voliotis, D.L.; Schimke, J.; Diehl, V.

A Simple Technique to Manage Malignant Pericardial Effusion with a Local Instillation of Bleomycin in Non-Small Cell Carcinoma of the Lung 507
Yano, T.; Yokoyama, H.; Inoue, T.; Takanashi, N.; Asoh, H.; Ichinose, Y.

Influence of Tetrachlorodecaoxide (Ryoxon®) on the Development of Leukemia after Total-Body Gamma-Irradiation 510
Kempf, S.R.; Blaszkiewitz, K.; Port, R.E.; Ivankovic, S.

A Phase II Study of Cisplatin in Patients with Biliary Tract Carcinoma 515
Okada, S.; Ishii, H.; Nose, H.; Yoshimori, M., Okusaka, T.; Aoki, K.; Iwasaki, M.; Furuse, J.; Yoshino, M.

A Phase II Trial of Weekly High-Dose Folinic Acid and 5-Fluorouracil in Combination with Epirubicin as Salvage Chemotherapy in Advanced Breast Cancer 518
Stöger, H.; Schmid, M.; Bauernhofer, T.; Moser, R.; Ploner, F.; Derstvenscheg, E.; Kasparek, A.K.; Kuss, I.; Wilders-Truschnig, M.; Lackner, C.; Steindorfer, P.; Samonigg, H.

Small Cell Lung Cancer: Analysis of Factors Influencing the Response to Treatment and Survival 523
de Wet, M.; Falkson, G.; Rapoport, B.L.

High-Sensitivity Antitumor Drug Sensitivity Testing 535
Kondo, T.; Wada, K.; Kawashima, M.; Sato, Y.; Yamauchi, M.

Testing Prospective Anticancer Drugs against Human Tumors Using Simple in vivo Models 540
Ryabkova, V.I.; Lockshin, A.; Strukov, I.G.; Sokolova, V.K.

Retinoblastoma Protein Expression in Lung Cancer: An Immunohistochemical Analysis 544
Higashiyama, M.; Doi, O.; Kodama, K.; Yokouchi, H.; Tateishi, R.

Comparative Chemosensitivity Profiles in Three Human Breast Cancer Cell Lines with the ATP-Cell Viability Assay 552
Koechli, O.R.; Sevin, B.-U.; Perras, J.P.; Angioli, R.; Untch, M.; Steren, A.; Ramachandran, C.; Averette, H.E.

Book Reviews 559
Author Index 560
Subject Index 563

Suppl. 1

New Directions in Anti-Cancer Chemotherapy
Guest Editor: M.E. Marty, Paris